

WHAT IS CLAIMED IS:

1. An apparatus for controlling a camera in a portable terminal, wherein the terminal includes a first housing having the camera and a second housing having a display section, the apparatus comprising:

- a first sensor installed at a first predetermined position of the second housing;
- a second sensor installed at a second predetermined position of the first housing in such a manner that the second sensor faces the first sensor when the second housing is in a closed position with respect to the first housing and generating on/off signals depending on a relationship with respect to the first sensor;
- a motor driving section for generating a motor driving signal to adjust a photographing angle of a lens of the camera to a predetermined photographing angle when a signal representing an opening of the second housing is generated from the second sensor; and
- a motor for rotating the lens of the camera according to the motor driving signal.

2. The apparatus as claimed in claim 1, wherein the first sensor includes a magnet and the second sensor includes a Hall effect IC.

3. A method for controlling a camera of a portable terminal including a second housing having a display section and a first sensor installed at a first predetermined position of the second housing, and a first housing having the camera and a second sensor installed at a second predetermined position of the first housing in such a manner that the second sensor faces the first sensor when the second housing is in a closed position with respect to the first housing, the method comprising the steps of:

- i) detecting a state of the second housing in a photographing mode based on a signal generated from the second sensor;
- ii) adjusting a photographing angle of a lens of the camera to a predetermined photographing angle when the second housing is in an open position with respect to the first housing;
- iii) displaying an image signal photographed at an adjusted photographing

angle of the lens of the camera; and

iv) returning the lens of the camera to an initial position of the lens when the photographing mode is finished.

5 4. The method as claimed in claim 3, further comprising the step of finely adjusting the photographing angle of the lens of the camera when an angle adjustment key is input while displaying the photographed image signal.

10 5. A method for controlling a camera of a portable terminal including a second housing having a display section and a first sensor installed at a first predetermined position of the second housing, and a first housing having the camera and a second sensor installed at a second predetermined position of the first housing in such a manner the second sensor faces the first sensor when the second housing is in a closed position with respect to the first housing, the method comprising the steps of:

15 i) detecting a state of the second housing in a photographing mode based on a signal generated from the second sensor;

 ii) adjusting a photographing angle of a lens of the camera according to predetermined data depending on a state of the second housing; and

 iii) displaying an image signal photographed at an adjusted photographing
20 angle of the lens of the camera, wherein, the photographing angle of the lens of the camera is adjusted according to predetermined data corresponding to a shifted state of the second housing when the state of the second housing is shifted, and the image signal is repeatedly displayed.